

ECON 1078 - 100  
Math Tools for Economists - I  
Summer 2010

**Instructor:** Dan Hickman

**Class Meetings:** MTWRF 2:30-4:05, HLMS 267  
June 1<sup>st</sup> (Tuesday) – July 1<sup>st</sup> (Thursday)

**Email:** [daniel.hickman@colorado.edu](mailto:daniel.hickman@colorado.edu)

**Office:** Econ 313

**Office Hours:** TR 1-2:30, and by appointment

Office hours are held for your benefit. You are highly encouraged to come to my office hours with prepared questions.

**Course Websites:** <https://webfiles.colorado.edu/hickmand>  
This is my website where you will go to find general information and updates.

<http://www.colorado.edu/economics/courses/ECON1078/1078home.html>  
This is the web page developed by all Econ 1078 instructors. You can find homework and exam problems from previous semesters here.

**Course Description and Objectives:**

The goal of this class is to provide students with the mathematical tools needed for future courses in business and economics. We will cover polynomials, functions, solving systems of equations, logic, probability, and differentiation.

**Textbook:**

*Essential Mathematics for Economic Analysis*, 3<sup>rd</sup> edition, by Knut Sydsater, and  
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### Calculator Note:

As this is a course designed to teach mathematical techniques you will need a calculator that can do basic mathematical functions. These include exponentials, logarithms, radicals, and factorials ( $\log$ ,  $\ln$ ,  $e^x$ ,  $n^x$  and  $x!$ ). Any basic scientific calculator will perform these functions. While a graphing calculator may be useful in doing some of the homework problems, **you cannot use a graphing calculator on exams or quizzes. You also cannot use a cell phone calculator on quizzes or exams.**

### Grading:

The grades for the course will be based on the standard scale:

93-100%	A	73-76%	C
90-92%	A-	70-72%	C-
87-89%	B+	67-69%	D+
83-86%	B	63-66%	D
80-82%	B-	60-62%	D-
77-79%	C+	below 60%	F

Your grade will come from the following breakdown:

20% - Quizzes and In-Class Assignments (Lowest score dropped)

25% - Exam 1 (Chapters 1 and 2) - Wednesday, June 9<sup>th</sup>

25% - Exam 2 (Chapters 3 and 4) - Tuesday, June 22<sup>nd</sup>

30% - Final Exam (Cumulative) - Thursday July 1<sup>st</sup>

### Quizzes

There will be a total of three quizzes given during the semester. *There will be no makeup quizzes given.*

### In-Class Assignments

Randomly throughout the semester I will assign problems for you to work on in class, which you will hand in to me before you leave. These problems are intended to provide practice and will be similar to problems you will see on quizzes and exams. *There will be no makeup assignments given.*

I will drop the lowest score from your quizzes and in-class assignments.

### Problem Sets

For each chapter, I will suggest a list of problems from the book that will be good practice for the exams and quizzes. These problems will *not* be handed in, but I highly encourage you to attempt as many of them as possible and ask questions as necessary.

**Exams**

We will take a total of three exams in this course. The midterm exams will be held on Wednesday June 9<sup>th</sup> and Tuesday June 22<sup>nd</sup>. These exams will be held during the normal class time. If you miss a midterm exam, the weight of that exam will carry over onto the final. The final exam will be held on Thursday July 1<sup>st</sup>, also at the normal exam time. The final exam will be cumulative.

**Absences:**

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please notify me as soon as possible so that the proper arrangements can be made. Students can see full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

**Disabilities Statement:**

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed.

Disability Services determines accommodations based on documented disabilities.

Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.

Time extensions for exams must be approved by me prior to the exam. If you have not talked to me personally prior to the exam you will not be granted an extension.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. Other letters/requests you may receive from agencies such as the Wardenburg Student Health Center, or other health providers, such as physicians or counselors, are recommendations you may choose to follow to assist students but are not necessarily legal mandates. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices>